BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Modified Improvements to Roads, drains and other works at Kuvempunagara 1st Stage Main Road and Surroundings in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.

			Est Cost Rs.					2498750.00	
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	Cum							
	Kuvempunagara 2nd Stage road1		2	72.00	0.45	0.35	22.68		
	Kuvempunagara 2nd Stage road2		2	84.00	0.45	0.40	30.24		
	Kuvempunagara 2nd Stage road3		2	30.00	0.45	0.35	9.45		
	Kuvempunagara 2nd Stage Main Road		2	80.00	1.00	1.00	160.00		
							222.37	199.36	**44332.00**
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
	Drain Bed Concrete								
	Kuvempunagara 2nd Stage road1		2x2	72.00	0.20	0.15	8.64		
	Kuvempunagara 2nd Stage road2		2x2	84.00	0.20	0.15	10.08		
	Kuvempunagara 2nd Stage road3		2x2	30.00	0.20	0.15	3.60		
	Kuvempunagara 2nd Stage Main Road		2	80.00	1.00	0.15	24.00		
							46.32	5159.02	**238966.00**
3	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2016-17**	Cum							
	Bottom Concrete		2	80.00	0.90	0.15	21.60		
	Side Wall		4	80.00	0.15	0.60	28.80		
							50.40	6231.74	**314080.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface** such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 15 / It No. 4.31 PWD SR 2016-17**	Sqm							
	Kuvempunagara main Road		2x4	80.00		0.60	384.00		
							384.00	310.58	**119263.00**
5	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - **TMT bars Fe 500 Page No. 17 / Item No. 4.46.2, PWD SR 2016-17**	Tonne							
				50.40	0.06	T/cum	**3.02**	64243.42	**194272.00**
6	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm							
	Solid Block Drain covering slabs		240	0.90	0.60		129.60		
			280	0.90	0.60		151.20		
			100	0.90	0.60		54.00		
			267	0.90	0.60		144.00		
	Total Qty						**478.80**		
	Qty upto 125%						**301.05**	1760.00	**529848.00**
	Qty above 125%						**177.75**	1760.00	**312840.00**
	EIRL								
E1	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 25 / Item No. 5.33 PWD SR 2016-17**	Sqm							
	Kuvempunagara 2nd Stage road1		2	35.00		1.35	94.50		
	Kuvempunagara 2nd Stage road2		2	40.00		1.35	108.00		
	Kuvempunagara 2nd Stage road3		2	15.00		1.35	40.50		
							243.00	80.56	**19576.00**
	Basic Rate	76.00							
	Area Weightage @ 6%	4.56							
	Total	**80.56**							
E2	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.6 PWD SR 2016-17**	Cum							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Solid Block Drain Vent Concrete		2	72.00	0.45	0.10	6.48		
			2	84.00	0.45	0.10	7.56		
			2	30.00	0.45	0.10	2.70		
	Bed Concrete		2x2	72.00	0.20	0.10	5.76		
			2x2	84.00	0.20	0.10	6.72		
			2x2	30.00	0.20	0.10	2.40		
	Basic Rate	5441.00					**31.62**	5767.46	**182367.00**
	Area Weightage @ 6%	326.46							
	Total	**5767.46**							
E3	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size **400x200x200 mm** having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 25 / Item No. 5.26.1, PWD SR 2016-17**	Sqm							
	Kuvempunagara 2nd Stage road1		2x2	72.00		0.40	115.20		
	Kuvempunagara 2nd Stage road2		2x2	84.00		0.40	134.40		
	Kuvempunagara 2nd Stage road3		2x2	30.00		0.40	48.00		
							297.60	993.22	**295582.00**
	Basic Rate	937.00							
	Area Weightage @ 6%	56.22							
	Total	**993.22**							
	Sub Total								**2251126.00**
	KRIDL Charges @ 10%								**225113.00**
	Labour Cess @ 1%								**22511.00**
								Total	**2498750.00**
	Rupees Twenty Five lakhs only								

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2016-17.
3 This work included under 2017-18 24.10 % Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Modified Technical Sanction
Accorded For Rs 2498750.00
Head of A/C P-1828
CER NO TS/22/1819 Dt: 27.09.

TA CE (YNK)